

PATENT APPLICATION  
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



In re application of

AIZAWA, MASUO, et al.

Reissue Appln. No.: 09/800,670

Group Art Unit: Not assigned

Confirmation No.: 4840

Examiner: Not assigned

Filed: March 8, 2001

For: LUMINESCENCE BY REACTING AN ACRIDINIUM ESTER WITH  
SUPEROXIDE

SUBMISSION OF EXECUTED DECLARATION

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DEC 05 2001

Commissioner for Patents

Washington, D.C. 20231

OFFICE OF PETITIONS

Sir:

In response to the "Notice to File Missing Parts of Nonprovisional Application filed under 37 CFR 1.53(b) - Filing Date Granted" (copy enclosed) for the above application, Applicants respectfully submit herewith the executed Declaration for the above identified reissue application. Also enclosed is a Petition for Extension of Time, with required fee attached, the Consent of Assignee to Reissue and the Statement Under 37 C.F.R. §3.73(b).

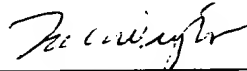
The Declaration is executed by all the inventors except one. One of the inventors is deceased and the legal representative (heir) could not be found or reached. Therefore, enclosed is a Petition Under 37 C.F.R. §1.47, an executed Declaration of Facts (and related attachments) and the required Petition fee.

SUBMISSION OF EXECUTED DECLARATION  
Reissue Application No. 90/800,670

A check for the statutory fee of \$130.00 is attached.

Please also charge any underpayment or credit any overpayment to Deposit  
Account No. 19-4880. A duplicate copy of this paper is attached.

Respectfully submitted,



---

Lee C. Wright  
Registration No. 41,441

SUGHRUE MION, PLLC  
2100 Pennsylvania Avenue, N.W.  
Washington, D.C. 20037-3213  
Telephone: (202) 293-7060  
Facsimile: (202) 293-7860  
Date: December 3, 2001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Reissue Application of

Masuo Aizawa, et al.

Application Serial No.: 09/800,670

(Reissue Application of U.S. Patent  
No. 5,879,888 issued on March 9, 1999)

Filed: March 8, 2001

For: LUMINESCENCE BY REACTING AN ACRIDINIUM ESTER WITH SUPEROXIDE

REISSUE DECLARATION UNDER 37 C.F.R. § 1.175

We, Masuo AIZAWA, Legal Representative or heirs for Yoshihito IKARIYAMA (deceased), Eiry KOBATAKE, Minoru OGASAWARA and Mitsunao TANAKA, all of Japan, do hereby declare and state, upon information and belief, as follows:

Our residence, mailing address and citizenship are as stated below next to our names.

We believe that we are the original, first and joint inventors of the invention "LUMINESCENCE BY REACTING AN ACRIDINIUM ESTER WITH SUPEROXIDE" which is described and claimed in U.S. Patent No. 5,879,888 issued on March 9, 1999 and assigned to Iatron Laboratories, Inc., the specification of which is submitted with this application for reissue; and that we have reviewed and understand the contents of the specification, including the Preliminary Amendment filed March 8, 2001.

In compliance with 37 C.F.R. §1.175(a)(7) and §1.63(b)(3), we hereby acknowledge our duty to disclose information of which we are aware which is material to patentability as defined in 37 C.F.R. §1.56.

REISSUE DECLARATION UNDER 37 C.F.R. § 1.175  
REISSUE APPLICATION OF U.S. PATENT NO. 5,879,888

The priority is claimed from:

Japanese Patent Application

4-266713

Filing Date

September 9, 1992

In compliance with 37 C.F.R. § 1.175(a), we hereby declare and state that U.S. Patent No. 5,879,888 is believed to be at least partly inoperative for the reason that we claimed more or less than we had the right to claim in the patent.

Pursuant to 37 C.F.R. § 1.175(a)(1), we state as follows at least one error in the patent, which is relied on as a basis for this reissue.

The purpose of seeking a reissue patent is to place original dependent claims 4 and 7 into independent form. Original independent claims 1 and 5 include a recitation to an acridinium ester of a general formula (2). However, the specific ester of dependent claims 4 and 7, dependent on independent claims 1 and 5, respectively, does not fall within the scope of general formula (2) of the independent claims.

Therefore, due to their dependencies on independent claims 1 and 5, dependent claims 4 and 7 raise possible issues under 35 U.S.C. §112, second paragraph, 35 U.S.C. §112, fourth paragraph, and 37 C.F.R. §1.75(c) for failing to further limit the subject matter of a previous claim.

Pursuant to 37 C.F.R. §1.175(a)(2), we state that all errors being corrected in the reissue application up to the time of filing this declaration arose without any deceptive intention.

We hereby appoint John H. Mion, Reg. No. 18,879; Thomas J. Macpeak, Reg. No. 19,292; Robert J. Seas, Jr., Reg. No. 21,092; Darryl Mexic, Reg. No. 23,063; Robert V. Sloan,

REISSUE DECLARATION UNDER 37 C.F.R. § 1.175  
REISSUE APPLICATION OF U.S. PATENT NO. 5,879,888

Reg. No. 22,775; Peter D. Olexy, Reg. No. 24,513; J. Frank Osha, Reg. No. 24,625; Waddell A. Biggart, Reg. No. 24,861; Louis Gubinsky, Reg. No. 24,835; Neil B. Siegel, Reg. No. 25,200; David J. Cushing, Reg. No. 28,703; John R. Inge, Reg. No. 26,916; Joseph J. Ruch, Jr., Reg. No. 26,577; Sheldon I. Landsman, Reg. No. 25,430; Richard C. Turner, Reg. No. 29,710; Howard L. Bernstein, Reg. No. 25,665; Alan J. Kasper, Reg. No. 25,426; Kenneth J. Burchfiel, Reg. No. 31,333; Gordon Kit, Reg. No. 30,764; Susan J. Mack, Reg. No. 30,951; Frank L. Bernstein, Reg. No. 31,484; Mark Boland, Reg. No. 32,197; William H. Mandir, Reg. No. 32,156; Brian W. Hannon, Reg. No. 32,778; Abraham J. Rosner, Reg. No. 33,276; Bruce E. Kramer, Reg. No. 33,725; Paul F. Neils, Reg. No. 33,102; Brett S. Sylvester, Reg. No. 32,765; Robert M. Masters, Reg. No. 35,603, George F. Lehnigk, Reg. No. 36,359, John T. Callahan, Reg. No. 32,607 and Steven M. Gruskin, Reg. No. 36,818, my attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and request that all correspondence about the application be addressed to **SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC**, 2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037-3213.

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

REISSUE DECLARATION UNDER 37 C.F.R. § 1.175  
REISSUE APPLICATION OF U.S. PATENT NO. 5,879,888

**First Inventor**

Masuo AIZAWA  
First Name Last Name

Signature \_\_\_\_\_

Date \_\_\_\_\_

Residence: Tokyo, Japan

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Citizenship: Japanese

**Second Inventor**

Yoshihito IKARIYAMA (deceased)  
First Name Last Name

Signature \_\_\_\_\_

(Legal Representative or heirs for the deceased inventor)

Date \_\_\_\_\_

Residence: Tokyo, Japan

Mailing Address: 10-36, Okayama 2-chome, Meguro-ku,  
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Citizenship: Japanese

**Legal Representative or Heir for Deceased Inventor**

First Name Last Name

Residence: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Citizenship: \_\_\_\_\_

REISSUE DECLARATION UNDER 37 C.F.R. § 1.175  
REISSUE APPLICATION OF U.S. PATENT NO. 5,879,888

**Third Inventor**

Eiry KOBATAKE  
First Name Last Name

Signature \_\_\_\_\_

Date \_\_\_\_\_

Residence: Tokyo, Japan  
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Citizenship: Japanese

**Fourth Inventor**

Minoru OGASAWARA  
First Name Last Name

Signature \_\_\_\_\_

Date \_\_\_\_\_

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Mailing Address: c/o Iatron Laboratories, Inc., 11-4, Higashi-kanda 1-chome,  
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Citizenship: Japanese

**Fifth Inventor**

Mitsunao TANAKA  
First Name Last Name

Signature \_\_\_\_\_

Date \_\_\_\_\_

Residence: Tokyo, Japan  
Mailing Address: c/o Iatron Laboratories, Inc., 11-4, Higashi-kanda 1-chome,  
Chiyoda-ku, Tokyo, Japan  
Citizenship: Japanese

平成13年6月22日

碓山 様

〒173-0004

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板橋中央ビル5階

森田国際特許事務所

弁理士 森田 憲一

Tel. 03-5248-4662

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拝啓

私は、碓山義人先生、他4名の先生方による共同発明において、特許出願の代理人を務めさせていただいている者です。この度、本件の米国向け特許出願の手続き上、発明者の方々のご署名をいただく必要が生じ、発明者の方々にご連絡をとらせていただいております。

しかしながら、碓山先生におかれましては、昨年お亡くなりになられたとのご連絡を、本発明の特許出願人であります株式会社ヤترون様より拝受致しました。大変遅くなりましたが、心よりご冥福をお祈り申し上げます。

さて、このような場合（発明者の死去により署名取得不能な場合）、米国特許法上、発明者に代わって相続人の方のご署名が必要となります。突然このようなご依頼をご遺族の方に申し上げることは誠に不躰かと存じますが、何卒ご理解の上ご協力いただければ幸いに存じます。

ご署名いただく書類の内容は、碓山先生等が本発明の真の発明者であることを宣言するものであり、ご遺族の方にご迷惑をおかけするものではありません。ご署名いただく箇所は、同封の書類の4頁目付箋をつけたところです。ご署名は日本語又はローマ字どちらでも構いません。また、相続人の方の氏名・現住所も記載することになりますので、別紙にご記入いただき、併せて同封の返信用封筒にてご返送いただきたくお願い申し上げます。

なお、ご質問・ご不明な点等ございましたら、ご遠慮なく弊所までご連絡ください。

敬具

同封書類：

- |                      |     |
|----------------------|-----|
| (1) 米国特許庁提出用書類（ご署名用） | 1 通 |
| (2) 別紙（氏名・住所記載用）     | 1 通 |
| (3) 返信用封筒            | 1 枚 |

以上



別紙

碓山義人先生ご相続人データ

フリガナ

氏名： \_\_\_\_\_

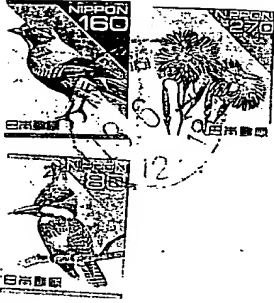
フリガナ

現住所： 〒 \_\_\_\_\_

\_\_\_\_\_

国籍： \_\_\_\_\_

Translation of the returned undelivered mail



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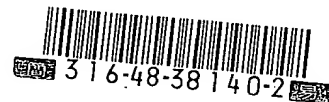
Meguro

Seal

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10-36, Okayama 2-chome,  
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Ms. Ikariyama



Registered Mail

MORITA & ASSOCIATES

Itabashi-chuo Bldg. 5F, 67-8, Itabashi 2-chome,  
Itabashi-ku, Tokyo 173-0004

☎ (03)5248-4662  
FAX (03)5248-4663

碓山先生のご遺族のご連絡先について

下記のいずれかにご回答ください。

\* ご連絡先は以下の通りです。

ご住所 : \_\_\_\_\_  
\_\_\_\_\_

お名前 : \_\_\_\_\_

(\*) ご連絡先はわかりません。

相澤 益男 相澤

**Translation of Dr. Masuo Aizawa's Reply**

**New address of the surviving family of Dr. Ikariyama**

Please indicate one of the followings;

- \* The new address is as follows.

Address : \_\_\_\_\_  
\_\_\_\_\_

Name : \_\_\_\_\_

- \* I do not know of any new address.

Signature of  
Masuo Aizawa (Seal)

PATENT APPLICATION  
Attorney Docket No. Q63394

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Reissue Application of

Masuo Aizawa, et al.

Application Serial No.: 09/800,670

(Reissue Application of U.S. Patent  
No. 5,879,888 issued on March 9, 1999)

Filed: March 8, 2001

For: LUMINESCENCE BY REACTING AN ACRIDINIUM ESTER WITH SUPEROXIDE



RECEIVED

DEC 05 2001

OFFICE OF PETITIONS

REISSUE DECLARATION UNDER 37 C.F.R. § 1.175

We, Masuo AIZAWA, Legal Representative or heirs for Yoshihito IKARIYAMA (deceased), Eiry KOBATAKE, Minoru OGASAWARA and Mitsunao TANAKA, all of Japan, do hereby declare and state, upon information and belief, as follows:

Our residence, mailing address and citizenship are as stated below next to our names.

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REISSUE DECLARATION UNDER 37 C.F.R. § 1.175  
REISSUE APPLICATION OF U.S. PATENT NO. 5,879,888

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The priority is claimed from:

Japanese Patent Application

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September 9, 1992

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REISSUE DECLARATION UNDER 37 C.F.R. § 1.175  
REISSUE APPLICATION OF U.S. PATENT NO. 5,879,888

Reg. No. 22,775; Peter D. Olexy, Reg. No. 24,513; J. Frank Osha, Reg. No. 24,625; Waddell A. Biggart, Reg. No. 24,861; Louis Gubinsky, Reg. No. 24,835; Neil B. Siegel, Reg. No. 25,200; David J. Cushing, Reg. No. 28,703; John R. Inge, Reg. No. 26,916; Joseph J. Ruch, Jr., Reg. No. 26,577; Sheldon I. Landsman, Reg. No. 25,430; Richard C. Turner, Reg. No. 29,710; Howard L. Bernstein, Reg. No. 25,665; Alan J. Kasper, Reg. No. 25,426; Kenneth J. Burchfiel, Reg. No. 31,333; Gordon Kit, Reg. No. 30,764; Susan J. Mack, Reg. No. 30,951; Frank L. Bernstein, Reg. No. 31,484; Mark Boland, Reg. No. 32,197; William H. Mandir, Reg. No. 32,156; Brian W. Hannon, Reg. No. 32,778; Abraham J. Rosner, Reg. No. 33,276; Bruce E. Kramer, Reg. No. 33,725; Paul F. Neils, Reg. No. 33,102; Brett S. Sylvester, Reg. No. 32,765; Robert M. Masters, Reg. No. 35,603; George F. Lehnigk, Reg. No. 36,359; John T. Callahan, Reg. No. 32,607 and Steven M. Gruskin, Reg. No. 36,818, my attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and request that all correspondence about the application be addressed to **SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC**, 2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037-3213.

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

**First Inventor**

AIZAWA

Last Name

Date \_\_\_\_\_

August 3, 2001

Mailing Address: 19-14, Amanuma 2-chome, Suginami-ku,  
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Citizenship: Japanese

Yoshihito

IKARIYAMA (deceased)

Last Name

Signature \_\_\_\_\_

(Legal Representative or heirs for the deceased inventor)

Date \_\_\_\_\_

Mailing Address: 10-36, Okayama 2-chome, Meguro-ku,  
Tokyo 152, Japan

Citizenship: Japanese

## First Name

Last Name

Residence:

Mailing Address:

Citizenship:



REISSUE DECLARATION UNDER 37 C.F.R. § 1.175  
REISSUE APPLICATION OF U.S. PATENT NO. 5,879,888

**Third Inventor**

\_\_\_\_\_  
Eiry KOBATAKE  
First Name Last Name

Signature \_\_\_\_\_  
*Eiry Kobatake*

Date \_\_\_\_\_ August 3, 2001

Residence: \_\_\_\_\_ Tokyo, Japan

Mailing Address: \_\_\_\_\_ 39-20-102, Higashitamagawa 2-chome, Setagaya-ku,  
Tokyo 158, Japan

Citizenship: \_\_\_\_\_ Japanese

**Fourth Inventor**

\_\_\_\_\_  
Minoru OGASAWARA  
First Name Last Name

Signature \_\_\_\_\_  
*M. Ogasawara*

Date \_\_\_\_\_ August 3, 2001

Residence: \_\_\_\_\_ Tokyo, Japan

Mailing Address: \_\_\_\_\_ c/o Iatron Laboratories, Inc., 11-4, Higashi-kanda 1-chome,  
Chiyoda-ku, Tokyo 101, Japan

Citizenship: \_\_\_\_\_ Japanese

**Fifth Inventor**

\_\_\_\_\_  
Mitsunao TANAKA  
First Name Last Name

Signature \_\_\_\_\_  
*Mitsunao Tanaka*

Date \_\_\_\_\_ August 3, 2001

Residence: \_\_\_\_\_ Tokyo, Japan

Mailing Address: \_\_\_\_\_ c/o Iatron Laboratories, Inc., 11-4, Higashi-kanda 1-chome,  
Chiyoda-ku, Tokyo, Japan

Citizenship: \_\_\_\_\_ Japanese

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D/H/A  
UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

DATE: 12/15/94  
TO:

N04B  
SUGHRUE, MION, ZINN, MACPEAK & SEAS  
2100 PENNSYLVANIA AVENUE, N.W.  
SUITE 800  
WASHINGTON, D.C. 20037-3202  
ATTN: WADDELL A. BIGGART

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT BRANCH OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE U.S. PATENT AND TRADEMARK OFFICE ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT ASSIGNMENT PROCESSING SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT BRANCH, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231

ASSIGNOR:

AIZAWA, MASUO

DOC DATE: 04/25/94

ASSIGNOR:

IKARIYAMA, YOSHIHITO

DOC DATE: 04/25/94

ASSIGNOR:

KOBATAKE, EIRY

DOC DATE: 04/25/94

ASSIGNOR:

OGASAWARA, MINORU

DOC DATE: 04/25/94

ASSIGNOR:

TANAKA, MITSUNAO

DOC DATE: 04/25/94

RECORDATION DATE: 05/06/94    NUMBER OF PAGES 002    REEL/FRAME 7206/0914

DIGEST : ASSIGNMENT OF ASSIGNORS INTEREST

ASSIGNEE:

IATRON LABORATORIES INC.  
11-4, HIGASHI-KANDA 1-CHOME  
CHIYODA-KU, TOKYO 101, JAPAN

7206/0914 PAGE 0002

SERIAL NUMBER	8-232256	FILING DATE	05/06/94
PATENT NUMBER		ISSUE DATE	00/00/00

*Jacqueline E. Moore*  
EXAMINER/PARALEGAL  
ASSIGNMENT BRANCH

ASSIGNMENT/CERTIFICATION SERVICES DIVISION

03/232256

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PATENTS ONLY

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

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6 MAY 1994

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):  
Masao AIZAWA, Yoshihito IKARIYAMA, Eiry KOBATAKE,  
Minoru OGASAWARA and Mitsunao TANAKA

2. Name and address of receiving party(ies)?

Name:  
IATRON LABORATORIES INC.  
Internal Address:  
11-4, Higashi-kanda 1-chome, Chiyoda-ku, Tokyo 101, Japan  
Street Address:  
Same as aboveAdditional name(s) of conveying party(ies) attached?  
\_\_\_ yes \_\_\_ x no

City State Zip

Additional name(s) & address(es) attached  
\_\_\_ yes \_\_\_ x no

3. Nature of Conveyance:

☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other

Execution Date: April 25, 1994

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:  
April 25, 1994

A. Patent Application No.(s)

B. Patent No(s).

Additional numbers attached? Yes \_\_\_ x No

5. Name and address of party to whom correspondence concerning document should be mailed:

SUGHRUE, MION, ZINN, MACPEAK & SEAS  
2100' Pennsylvania Avenue, N.W.  
Suite 800  
Washington, D.C. 20037-32026. Total number of applications and patents involved:  
One (1)Total Fee (37 CFR 3.41): \$ 40.00  
☒ Enclosed. Please charge any underpayment in connection with this Assignment to Deposit Account No. 19-4880.

\_\_\_ Authorized to be charged to Deposit Account

7. Deposit Account No.

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Name Waddell A. Biggart Reg. No. 24,861

May 6, 1994  
Date

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(Sole or Joint)

## ASSIGNMENT

WHEREAS, I/WE (1) Masuo AIZAWA, (2) Yoshihito IKARIYAMA, (3) Eiry KOBATAKE, (4) Minoru OGASAWARA, and (5) Mitsunao TANAKA, residing at (1) 19-14, Amanuma 2-chome, Suginamiku-ku, Tokyo 167, Japan, (2) 10-36, Okayama 2-chome, Meguro-ku, Tokyo 152, Japan, (3) 39-20-102, Higashitamagawa 2-chome, Setagaya-ku, Tokyo 158, Japan, (4) c/o Iatron Laboratories, Inc., 11-4, Higashi-kanda 1-chome, Chiyoda-ku, Tokyo 101, Japan, (5) c/o Iatron Laboratories, Inc., 11-4, Higashi-kanda 1-chome, Chiyoda-ku, Tokyo, (hereinafter referred to as INVENTOR(S)), am/are the sole or joint inventor (if more than one inventor is named below) of subject matter (Invention) disclosed in an application for United States Letters Patent titled

which was executed by me/us on \_\_\_\_\_, and filed in the United States Patent and Trademark Office on \_\_\_\_\_, under Serial No. \_\_\_\_\_, in the name(s) of (1) Masuo AIZAWA, (2) Yoshihito IKARIYAMA, (3) Eiry KOBATAKE, (4) Minoru OGASAWARA, and (5) Mitsunao TANAKA, and which has issued on \_\_\_\_\_ as U.S. Patent No. \_\_\_\_\_; and

WHEREAS, Iatron Laboratories, Inc., a corporation of Japan, having its principal place of business at 11-4, Higashi-kanda 1-chome, Chiyoda-ku, Tokyo 101, Japan, (hereinafter referred to as Company), is desirous of acquiring my/our entire undivided interest in and to said Invention and in and to any Letters Patent that may be granted therefor in the United States and in any and all foreign countries.

NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me/us in hand paid, the receipt whereof is hereby acknowledged, and other valuable consideration, the said Inventor(s) has/have sold, assigned and transferred, and by the presents do/does sell, assign and transfer unto said Company my/our entire undivided interest in the said Invention in the United States and its territorial possessions and in all foreign countries and my/our entire undivided right, title and interest in and to any and all Letters Patent, which may be granted thereof in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations and extensions thereof.

I hereby authorize and request the Patent Office Officials in the United States and in any and all foreign countries to issue any and all of said Letters Patent, when granted, to said Company as the assignee of my/our entire undivided rights, title and interest in and to the same, for the sole use and behoof of the said Company, its successors and assigns.

FURTHER, I/WE agree that I/we will communicate to said Company or its representatives any facts known to me/us respecting said Invention and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, substitution, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said Company, make all rightful oaths and generally do everything possible to aid said Company, its successors and assigns, to obtain and enforce proper protection for said Invention to the United States and in any and all foreign countries.

IN TESTIMONY WHEREOF, I/WE have hereunto set my/our hand this 25th day of April 1994.

Signed in the presence of: Masaharu Akimoto

Witness: Masaharu Akimoto

Signed: Masuo Aizawa

Masuo AIZAWA

Witness: Masaharu Akimoto

Signed: Yoshihito Ikariyama

Yoshihito IKARIYAMA

Witness: Masaharu Akimoto

Signed: Eiry Kobatake

Eiry KOBATAKE

Witness: Masaharu Akimoto

Signed: Minoru Ogasawara

Minoru OGASAWARA

Witness: Masaharu Akimoto

Signed: Mitsunao Tanaka

Mitsunao TANAKA

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